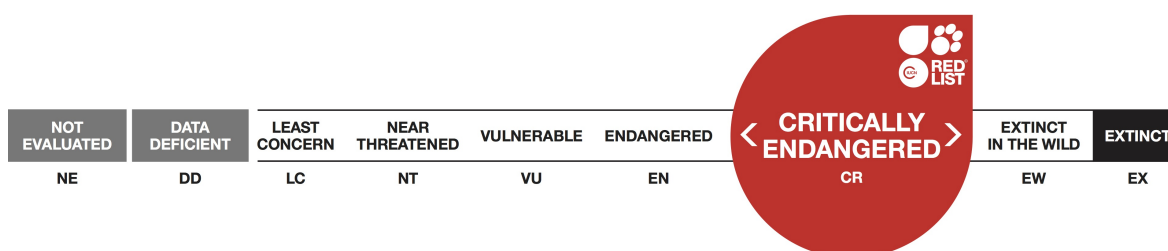


## *Pittosporum* sp. nov. 'wenemense'

Assessment by: Gemmill, C. et al.



View on [www.iucnredlist.org](http://www.iucnredlist.org)

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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Magnoliopsida	Rosales	Pittosporaceae

**Taxon Name:** *Pittosporum* sp. nov. 'wenemense' Gemmill ined.

**Taxonomic Source(s):**

Gemmill, C. In Prep. Three new species of *Pittosporum* in New Caledonia.

## Assessment Information

**Red List Category & Criteria:** Critically Endangered B1ab(v)+2ab(v) [ver 3.1](#)

**Year Published:** 2017

**Date Assessed:** July 24, 2015

**Justification:**

The new species *Pittosporum* "wenemense" is a forest species found on volcano-sedimentary soil at an altitudinal range 230-250 m asl. in Hienghène (Wénem). Its extent of occurrence (EOO) and area of occupancy (AOO) are both 8 km<sup>2</sup>. Fruit predation by rats has been observed, hence predicting a continuous decline in the number of individuals. The new species *Pittosporum* "wenemense" is close to but distinct from *P. malaxanii*. Using criterion B, *P. "wenemense"* qualifies for listing as Critically Endangered (CR) B1ab(v)+2ab(v).

## Geographic Range

**Range Description:**

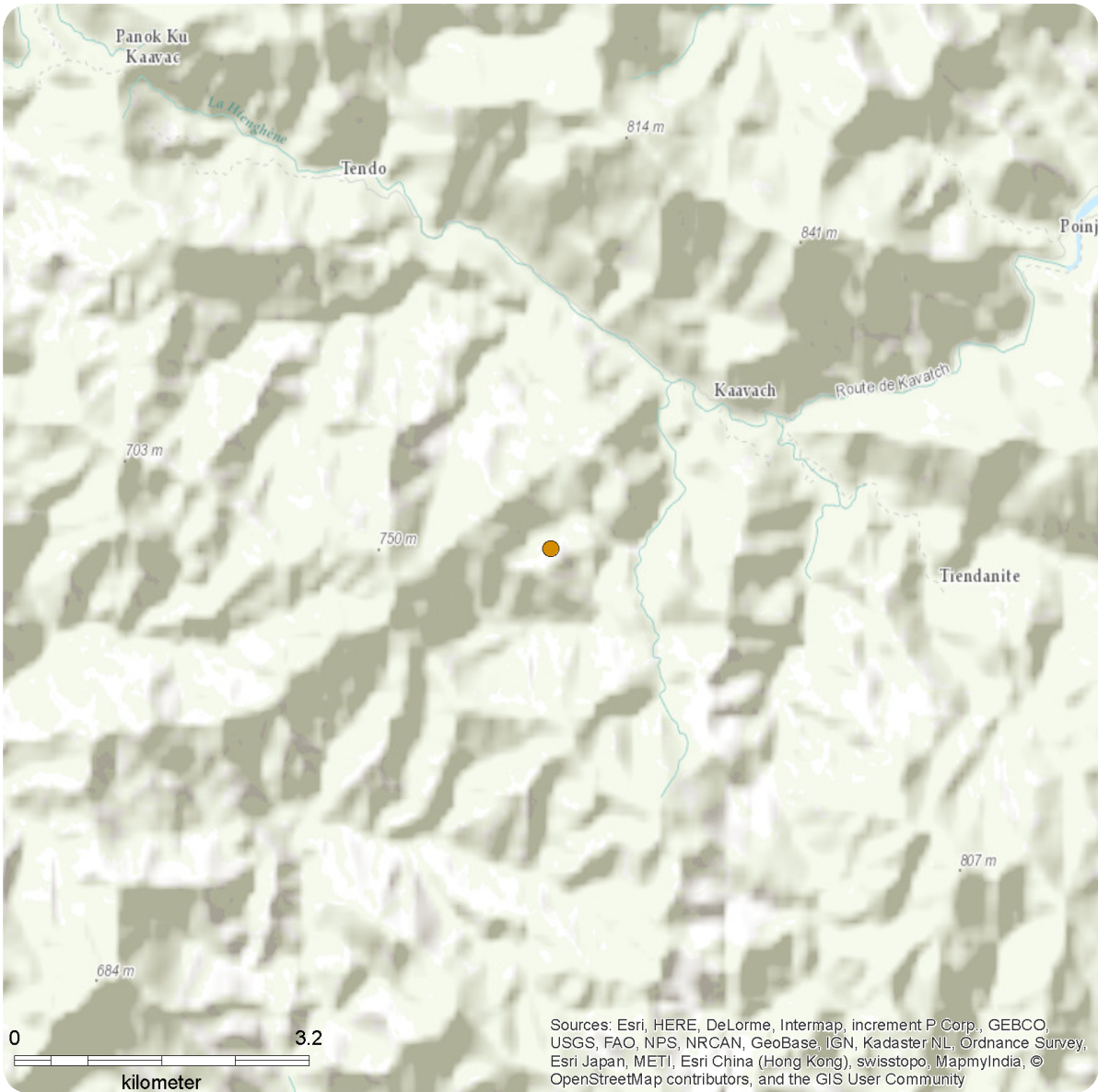
*Pittosporum* "veilloniana" is an endemic shrub of New Caledonia known only from Wénem forest in Hienghène.

**Country Occurrence:**

**Native:** New Caledonia

# Distribution Map

*Pittosporum* sp. nov. 'wenemense'



Range

- Extant (resident)

Compiled by:  
IUCN SSC New Caledonia Plants RLA



## Population

According to field observations, the single known population comprises only 16 individuals. It is, however, difficult to estimate the number of individuals as this species could be present in other forest patches around Wenem.

**Current Population Trend:** Decreasing

## Habitat and Ecology (see Appendix for additional information)

The new species *Pittosporum* "veilloniana" is known only from a forest on volcano-sedimentary substrates.

**Systems:** Terrestrial

## Threats (see Appendix for additional information)

According to field observations, fruit predation by rat has been observed in Wénem forest.

## Conservation Actions (see Appendix for additional information)

Currently, there are no regulatory law dedicated to new species in New Caledonia: *Pittosporum* "veilloniana" is thus not protected by legislation. At the suggestion of Dominique Fleurot (pers. comm.), 70 seeds have been entrusted to Gildas Gâteblé, research engineer at IAC with the target to planting *in situ*. From current work on phylogenetics, there is a need to continue morphological and phylogenetic studies in order to clarify taxonomic differences between *P.* "wenemense" and *P. malaxanii*. Doubts between those two species come from similarity in terms of the genetics observed between one individual determined as *P. malaxanii* from Farino and several individuals determined as *P.* "wenemense".

## Credits

**Assessor(s):** Gemmill, C., Veillon, J.-M., Amice, R., Cazé, H., Dumontet, V., Fleurot, D., Gâteblé, G., Garnier, D., Letocart, I., Letocart, D., Maggia, L. & Pain, A.

**Reviewer(s):** Tanguy, V.

**Facilitators(s) and Compiler(s):** Chanfreau, S.

## Bibliography

Endemia.nc. 2016. Faune et Flore de Nouvelle-Calédonie. Available at: <http://www.endemia.nc>.

Gemmill, C. In Prep. Three new species of *Pittosporum* in New Caledonia.

IUCN. 2017. The IUCN Red List of Threatened Species. Version 2017-3. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 7 December 2017).

## Citation

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## External Resources

For [Images and External Links to Additional Information](#), please see the Red List website.

## Appendix

### Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
1. Forest -> 1.6. Forest - Subtropical/Tropical Moist Lowland	-	Suitable	-

### Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.2. Named species (Unspecified Rattus)	Ongoing	-	-	-
	Stresses:	2. Species Stresses -> 2.3. Indirect species effects -> 2.3.7. Reduced reproductive success		

### Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: No
Invasive species control or prevention: No
In-Place Species Management
Successfully reintroduced or introduced benignly: No
Subject to ex-situ conservation: No

### Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.1. Taxonomy

### Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 8
Continuing decline in area of occupancy (AOO): Unknown
Extreme fluctuations in area of occupancy (AOO): No
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 8
Continuing decline in extent of occurrence (EOO): Unknown
Extreme fluctuations in extent of occurrence (EOO): No
Number of Locations: 1
Continuing decline in number of locations: Unknown
Extreme fluctuations in the number of locations: No
Lower elevation limit (m): 230
Upper elevation limit (m): 250
<b>Population</b>
Continuing decline of mature individuals: Yes
Extreme fluctuations: No
Population severely fragmented: Unknown
No. of subpopulations: 1
Extreme fluctuations in subpopulations: No
<b>Habitats and Ecology</b>
Generation Length (years): 0

## The IUCN Red List Partnership



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